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PATENT

Amendments to the Drawings:

The attached sheets of drawings include changes to Figs. 1A, 1B, Fig. 2 (both pages), and Figs. 3-7. These sheets, which include Figs. 1A, 1B, 2A-2C, 3, 4A and 4B, and 5-7 replace the original sheets including Figs. 1A, 1B, Fig. 2 (both pages), and Figs. 3-7.

Attachment: Replacement Sheets



VH/E	1	ATGACACCGACGACGACGACCGCGGAACTCACG	33
VH/E	34	ACGGAGTTTGACTACGACGATGAAGCGACTCCC	66
VH/E	67	TGTGTCCTCACCGACGTGCTTAATCAGTCGAAG	99
VH/E	100	CCAGTCACGTTGTTTCTGTACGGCGTTGTCTTT	132
VH/E	133	CTCTTCGGTTCCATCGGCAACTTCTTGGTGATC	165
VH/E	166	TTCACCATCACCTGGCGACGTCGGATTCAATGT	198
VH/E	199	TCCGGCGATGTTTACTTTATCAACCTCGCGGCC	231
VH/E	232	GCCGATTTGCTTTTCGTTTGTACACTACCTCTG	264
VH/E	265	TGGATGCAATACCTCCTAGATCACAACTCCCTA	297
VH/E	298	GCCAGCGTGCCGTGTACGTTACTCACTGCCTGT	330
VH/E	331	TTCTACGTGGCTATGTTTGCCAGTTTGTGTTTT	363
VH/E	364	ATCACGGAGATTGCACTCGATCGCTACTACGCT	396
VH/E	397	ATTGTTTACATGAGATATCGGCCTGTAAAACAG	429
VH/E	430	GCCTGCCTTTTCAGTATTTTTTGGTGATCTTT	462
VH/E	463	GCCGTGATCATCGCCATTCCACACTTTATGGTG	495
VH/E	496	GTGACCAAAAAAGACAATCAATGTATGACCGAC	528
VH/E	529	TACGACTACTTAGAGGTCAGTTACCCGATCATC	561
VH/E	562	CTCAACGTAGAACTCATGCTCGGTGCTTTCGTG	594
VH/E	595	ATCCCGCTCAGTGTCATCAGCTACTGCTACTAC	627
VH/E	628	CGCATTTCCAGAATCGTTGCGGTGTCTCAGTCG	660
VH/E	661	CGCCACAAAGGCCGCATTGTACGGGTACTTATA	693
VH/E	694	GCGGTGCTGCTTGTCTTTATCATCTTTTGGCTG	726
VH/E	727	CCGTACCACCTGACGCTGTTTGTGGACACGTTG	759
VH/E	760	AAACTGCTCAAATGGATCTCCAGCAGCTGCGAG	792
VH/E	793	TTCGAAAAATCACTCAAGCGCGCGCTCATCTTG	825
VH/E	826	ACCGAGTCACTCGCCTTTTGTCACTGTTGTCTC	858
VH/E	859	AATCCGCTGCTGTACGTCTTCGTGGGCACCAAG	891
VH/E	892	TTTCGGCAAGAACTGCACTGTCTGCTGGCCGAG	924
VH/E	925	TTTCGCCAGCGACTGTTTTCCCGCGATGTATCC	957
VH/E	958	TGGTACCACAGCATGAGCTTTTCGCGTCGGAGC	990
VH/E	991	TCGCCGAGCCGAAGAGAGACGTCTTCCGACACG	1023
VH/E	1024	CTGTCCGACGAGGCGTGTGCGGTCTCACAAATT	1056
VH/E	1057	ATACCGTAA	1065

FIG. 1A



Replacement Sheet

VH/E	1	<u>MTPTTTTAE</u> LTTEFDYDDEATPCVLT	DV	LN	QSK	33
VH/E	34	<u>PVTLFLY</u> GVVFLFGSIGNFLVIFTITWRRRIQC				66
VH/E	67	SGDVYFINLAAADLLFVCTLPLWMQYLLDHNSL				99
VH/E	100	ASVPCTLLTACFYVAMFASLCFITEIALDRYYA				132
VH/E	133	IVYMRYRPVKQACLFSIFWWIFAVIIAIPHFMV				165
VH/E	166	VTKKDNQCMTDYDYLEVSYPIILNVELMLGAFV				198
VH/E	199	IPLSVISYCYRISRIVAVSQSRHKGRIVRVL				231
VH/E	232	AVVLVFIIFWLPYHLTLFVDTLKLLKWISSSCE				264
VH/E	265	FEKSLKRALILTESLAFCHCCLNPLLYVFGTK				297
VH/E	298	FRQELHCLLAEFRQRLFSRDVSWYHSMSFSRRS				330
VH/E	331	SPSRRETSSDTLSDEACRV	SQ	IP		354

FIG. 1B



Replacement Sheet

human US28	1	MTPTT	- - - - -	5
rhesus US28.1	1	M	- - - - -	1
rhesus US28.2	1	MTNA	- - - - -	4
rhesus US28.3	1	MTNT	- - - - -	4
rhesus US28.4	1	M	- - - - -	0
rhesus US28.5	1	MTTTTMSAT TNSSTTPQASST TMTTKTSTPGN		32
human US28	6	- - - - TTAELTT	- - - - -	12
rhesus US28.1	2	- - - - -	- - - - -	1
rhesus US28.2	5	- - - - -	- - - - -	4
rhesus US28.3	5	- - - - -	- - - - -	4
rhesus US28.4	1	- - - - -	- - - - -	0
rhesus US28.5	83	TTTGTTSTLTTISTTSNATSITSNLSTTG NQT		64
human US28	13	- - - - -	- - - - -	12
rhesus US28.1	2	- - - - -	- - - - - NNT	4
rhesus US28.2	5	- - - - -	- - - - - GH	6
rhesus US28.3	5	- - - - -	- - - - - NNT	7
rhesus US28.4	1	- - - - -	- - - - - NSSQHNISVFLSIGA	15
rhesus US28.5	65	ATTNATTFSSSTLTTSTNISSTFSTVSTVASNA		96
human US28	13	- - - - -	- - - - -	12
rhesus US28.1	5	SCN	- - - - - F	8
rhesus US28.2	7	CH	- - - - - I	9
rhesus US28.3	8	TCH	- - - - - L	11
rhesus US28.4	16	- - - - -	- - - - - GPVITG	21
rhesus US28.5	97	TCNSTITTNITTAFTTAANTTASSLTSIVTSL		128
human US28	13	- - - - - EFDYDEDA TPCMF T DVLNQSKPVT L		37
rhesus US28.1	9	NVTLNASSA	- - - - - PSRYIAI	23
rhesus US28.2	10	NE SLASYG	- - - - - IAPAATI	24
rhesus US28.3	12	NGTFETF K	- - - - - ITRPVAI	26
rhesus US28.4	22	- - - - -	- - - - -	21
rhesus US28.5	129	ATTIETT S F DYDESAEACNLT DIVHT TRSVTV		160

FIG. 2A



Replacement Sheet

human US28	38	F L Y G V V F L F G S I G N F - L V I F T I T W R R R I O C S G	68
rhesus US28.1	24	A M Y S I V I C I G L V G N L L L C I V L V K - K R K L R Y S S	54
rhesus US28.2	25	T L Y S I A G I C G V T G N L L I L L V L F T - R R I H W F A N	55
rhesus US28.3	27	S A Y T V L V V I G L L G N I V L L S V L V V - K R K L K F P N	57
rhesus US28.4	22	- - Y T C V F L F G I L G H F Y L Y W K N H Q R R H R T N S F S	51
rhesus US28.5	61	T F Y T I I F I L G L L G N F - L V L M T I I W N R R I S F M V	191
human US28	69	D V Y F I N L A A A D L L F V C T L P L W M Q Y L L D H N S L A	100
rhesus US28.1	55	D V Y F F H A S M A D L V S T V M L P L W L H Y V L N F A Q L S	86
rhesus US28.2	56	D I Y Y L N M I F T D F L V F I T L P A W V Y Y L L N Y T Q L S	87
rhesus US28.3	58	D I Y F F N A S L A D V F A V C M L P A W V N Y A L D S T Q L S	89
rhesus US28.4	52	D V L F R H L M I T E E V F T L T I P V W A Y H L T T H G N L P	83
rhesus US28.5	192	E I Y F V N L A I S D L M F V C T L P F W I M Y L L E H D V M S	223
human US28	101	S V P C T L L T A C F Y V A M F A S L C F I T E I A L D R Y Y A	132
rhesus US28.1	87	R G A C I S F S V T F Y V P L F V Q A W L L I S I A M E R - Y S	117
rhesus US28.2	88	H Y A C I A L S F V F Y V S I F I Q A D F M V A V A I E R - Y R	118
rhesus US28.3	90	K F S C I T F T F G F Y V S L F I Q A W M L I L V T L E R - Y G	120
rhesus US28.4	84	G S W C R S L T F V F Y L T V F A R A F F Y L L L I W D R - Y S	114
rhesus US28.5	24	H A S C V A M T A I F Y C A L F A S T V F L L L I V L D R C Y A	255
human US28	133	I V Y M R Y R P V K Q - - - - - A C L F S I F W W I F A V I	157
rhesus US28.1	118	N L V W M A P I S V K - - - T A F K H C I G T - - - W I V S A F	143
rhesus US28.2	119	S L V K N K P L S V K - - - K A S V S C A C I - - - W I I V I I	144
rhesus US28.3	121	S L V W I A P I T R N - - - K A I A N C V L F - - - W L V S I F	146
rhesus US28.4	115	V I I C R H P L P V N L N Y S Q V I G - - - L S V W - - L V A V	141
rhesus US28.5	256	I L L G T E K A N R R L L R N A V S G C M L M - - - W G L C F I	284
human US28	158	I A I P H F M V V T K - K D N Q C - M T D Y D Y - L E V S Y P I	186
rhesus US28.1	144	V A S P Y Y A Y R N S H D E H E C I L G N Y T W H I N E P L H T	175
rhesus US28.2	145	V S S P Y Y M F R S Q H E T N S C I L G N Y T W H M N S P F R T	176
rhesus US28.3	147	L A A P Y Y S F R N E S N E H Q C I M R N Y T W S V G E T W H I	178
rhesus US28.4	142	L S A S P F S I F N G - S V K Q C - L G N M G - S I P S E S S A	170
rhesus US28.5	285	L A L P H F I F M K K - G T N V C - V A E Y E P G L N N F Y V I	314

FIG. 2B



Replacement Sheet

human US28	187	I L N V E L M L G A F V I P L S V I S Y C Y Y R I S R I V A V S	218
rhesus US28.1	176	C M D V V I I V W T F L A P V L V T I I A S V K M - R R T T W G	206
rhesus US28.2	177	T M D A S I N I W S F V V P A V T T L I A R R I Y V - C T S G	207
rhesus US28.3	179	A L D F L I T L I T F I M P V T I V L A L S F K M A R W S T F G	210
rhesus US28.4	171	V L N L E V H L C S F W L P L I M S A N C Y Y Q A K R R A S P D	202
rhesus US28.5	245	F I N T E V N L C T L V L P A A A I I Y W Y L K L T K A L K T H	346
human US28	219	Q S - R H K G R I V R V L I A V V L V F I I F W L P Y H L T L F	249
rhesus US28.1	207	N T - R L N E K N S D I L I V L V M T V F F W G P F N I V L V	237
rhesus US28.2	208	N K - K M N A R A S G L L E A M V I S M L F F G G L F N L N I F	238
rhesus US28.3	211	Y R - N L T S R T S L I L I L I L T V A A G F W G P F H L F M F	241
rhesus US28.4	203	Q - - L H E L Y R C S L L I T I I T T Y A I V W F P F H L A L L	232
rhesus US28.5	347	E R L R H R L T S L N I V L A V V I V F A L F W L P Y N L M L M	378
human US28	250	V D T L K L - L K W I S S S C E F E R S L K R A L I L T E S L A	280
rhesus US28.1	238	I D N I L Q R Y Y D T - T N C D V E K I K H I M A M I S E A I V	268
rhesus US28.2	239	R D - I V S D T S E D N K D C T Y L K Q E H F I R M V G V A L V	269
rhesus US28.3	242	I E N V A G Q I Y H I Q K D C W Y L Q L R H L C S L M T E T L V	273
rhesus US28.4	233	I D A L I S - I S H V E P S S A L H W A - - S I V V T C K S F T	261
rhesus US28.5	379	M Y S L V H - M Q - I P W E C S S E K I L R R S L I I T E S I A	408
human US28	281	F C H C C L N P L L Y V F V G T K F R Q E L H C L L A E F R Q R	312
rhesus US28.1	269	Y F R G I T A P I I Y V G I S G R F R E E I Y S L F R R Q P Y N	300
rhesus US28.2	270	Y G R A I F N P F M Y M C V S T R L R Q E I K C L F M R I P Y E	301
rhesus US28.3	274	F L R S V F N P Y I Y M I S Y K F R Q Q V R S L L K R T Q Y D	305
rhesus US28.4	262	F V Y A G I S P L V Y F T C C P T V R R E L L M S L R P F F T -	292
rhesus US28.5	409	L S H C C I N P I I Y L L F G P R C R S E F C H L L R C C F T R	440
human US28	313	L F S R D V S W - - Y H S M S F S R R S S P S R R E T S S D T L	342
rhesus US28.1	301	D L D P D A N - - - - - Q F M I E L T S Q G R S R N R N A R Q S	327
rhesus US28.2	302	T L D A E H A - - - - - K L M V N L K N R N A N V P D P K - - -	325
rhesus US28.3	306	A L D T T Q L - - - - - A E T M Q L K A K G V P V S D P A - - -	329
rhesus US28.4	293	- - - - - W I S S K T R R G Y A P I K T Q P L N I P D E P I	317
rhesus US28.5	441	L - C P H R S W S S I R A E T V S I S L S H S Q V S A S S E D D	471
human US28	343	S D E V C R V S Q I I P	354
rhesus US28.1	328	E S N V P Q P E E C F W	339
rhesus US28.2	326	- - - - - P R E Y E S V L	333
rhesus US28.3	380	- - - - - P H D C E C F L	337
rhesus US28.4	318	D N K S P H L L N - - E	327
rhesus US28.5	472	D N D V H D E L Q F L I	483

FIG. 2C



Replacement Sheet

human UL78	1	MSPSVEETTSVTESIMFAIVSFKHMGPFEgy	31
rhesus UL78	1	- - - - -	0
human UL78	32	SMSADRAASDLLIGMFGSVSLVNLTLIGCL	62
rhesus UL78	1	-MITERVLAGILAGMTAAGSLVILLAVV--M	28
human UL78	63	WVLRVTRP--PVSVMIFTWNLVLSQFFSILA	91
rhesus UL78	29	WLNMLDRAGMMAVGHYTG NLVLTQVICIFS	59
human UL78	92	TMLSKGIMLRGALNLSLCRLVLFVDDVGLYS	122
rhesus UL78	60	-MLASKIVGMTSAANMGFCGIVVFLEDTGly	89
human UL78	123	TALFFLFLILLDRLSAISYGRDLWHHE-TREN	152
rhesus UL78	90	VTSLLFMFMLDRMAAFLNGRLFWRQQTTKQ	120
human UL78	153	AGVALYAVAFAWVLSIVAAPTAATGSLDYR	183
rhesus UL78	121	NLSTSVYIILFCWVLGMAAAPP SAAVAAPNS	151
human UL78	184	WLGCIPIQYAAVDLTIKMWFLLGAPMIAVL	214
rhesus UL78	152	RMERCEIPVS YAAIDMIVKLWFVLLAPVVL I	182
human UL78	215	ANVVELAYSDDRHDVWSYVGRVCTFYVTCLM	245
rhesus UL78	183	MAV I IQSSYHRDRERI WYARRVFMFYTACF	213
human UL78	246	LFVPYYCFRV-----LRGV-LQPASAAAGTG	269
rhesus UL78	214	VMMVPYYFVRVMLSDFALVDIKTKTANS DGC	244
human UL78	270	FGIMDYVELATRTLTLTMR LGILPLFI I AFFS	300
rhesus UL78	245	DSTFLDYLNMFTHVIYSFKLVVFALFIVLFC	275
human UL78	301	REPTKDLDDSF DYLVERCQQSCHGHFVRRLV	331
rhesus UL78	276	SINPMETLEECLERADAERQSRSEASQGERR	306
human UL78	332	QALKRAMYSVELAVCYFSTSVRDVAEAVKKS	362
rhesus UL78	307	LPINTCCIKLIELIKQYVSTLSKATRDNSGE	337
human UL78	363	SSRCYADATSAAVVVT TTTSEKATLVEHAEG	393
rhesus UL78	338	RANLPENAEDIGTTGSDQLPTEVTVT PNSSA	368
human UL78	394	MASEMCPGTTIDVSAESSSVLCTDGEN TVAS	424
rhesus UL78	369	VFSTGGTVSPV	379
human UL78	425	DATVTAL	431

FIG. 3



Replacement Sheet

H UL33	1	M	-----	1
HUL33splice	1	MDTIIHNSI	-----	9
RhUL33	1	M	-----	1
RhUL33splice	1	MAVTLRGGSPINFKLMIVSHRNRKFHEIRLFQ		32
H UL33	2	-----	-----	1
HUL33splice	10	RNNTPP	-----HINDTCNM	23
RhUL33	2	-----	-----	1
RhUL33splice	33	RSAIRPGGLWKPFFTTERETNSILHINTTCNV		64
H UL33	2	TGPLFAIRTTEAVLNTFII FVGGPLNAIVLIT		33
HUL33splice	24	TGPLFAIRTTEAVLNTFII FVGGPLNAIVLIT		55
RhUL33	2	-----	-----	1
RhUL33splice	65	TDSLVAALKLGEALVNSALALFGTPLNAIVLVT		96
H UL33	34	QLLTNRVLGYSTPTIYMTNLYSTNFLTTLTVLP		65
HUL33splice	56	QLLTNRVLGYSTPTIYMTNLYSTNFLTTLTVLP		87
RhUL33	2	-----TNLYSANFLTTLIVLP		16
RhUL33splice	97	QLLANRVHGYSTPIIYMTNLYSANFLTTLIVLP		128
H UL33	66	PIVLSNQWLLPAGVASCKFLSVIYYSSCTVGF		97
HUL33splice	88	PIVLSNQWLLPAGVASCKFLSVIYYSSCTVGF		119
RhUL33	17	PIVLSNQHLLPASAVTCKFLSLLYYSSCSVGF		48
RhUL33splice	129	PIVLSNQHLLPASAVTCKFLSLLYYSSCSVGF		160
H UL33	98	ATVALIAADRYRVLHKRTYARQSYRSTYMI LL		129
HUL33splice	120	ATVALIAADRYRVLHKRTYARQSYRSTYMI LL		151
RhUL33	49	ATVALIAADRYRVIHRRTQARQSYRNTYMI VG		80
RhUL33splice	161	ATVALIAADRYRVIHRRTQARQSYRNTYMI VG		192
H UL33	130	LTWLAGLIFSVPAAVYTTVVMHHDANDTNNTN		161
HUL33splice	152	LTWLAGLIFSVPAAVYTTVVMHHDANDTNNTN		183
RhUL33	81	LTWLIGLICATPGGVYTTIVAH RDGE--SDAQ		110
RhUL33splice	193	LTWLIGLICATPGGVYTTIVAH RDGE--SDAQ		222

FIG. 4A



Replacement Sheet

H UL33	162	GHATCVLYFVAEEVHTVLLSWKVLLTMWVGAA	193
HUL33splice	184	GHATCVLYFVAEEVHTVLLSWKVLLTMWVGAA	215
RhUL33	111	RHNTCIMHFAYDEVY-VLMVWKLLIVLVWGIV	141
RhUL33splice	223	RHNTCIMHFAYDEVY-VLMVWKLLIVLVWGIV	253
H UL33	194	PVIMMTWIFYAFFYSTVQRTSLKQRSRTLTFVS	225
HUL33splice	216	PVIMMTWIFYAFFYSTVQRTSLKQRSRTLTFVS	247
RhUL33	142	PVVMMSWIFYAFFYNTVQRTAKKKQQ-RTLKFVK	172
RhUL33splice	254	PVVMMSWIFYAFFYNTVQRTAKKKQQ-RTLKFVK	284
H UL33	226	VLLISFVALQTPYVSLMIFNSYATTAWPMQCE	257
HUL33splice	248	VLLISFVALQTPYVSLMIFNSYATTAWPMQCE	279
RhUL33	173	VLLLSFIIIQTPYVSIMIFNTYATVGWPM ECA	204
RhUL33splice	285	VLLLSFIIIQTPYVSIMIFNTYATVGWPM ECA	316
H UL33	258	HLTLRRTIGTLARVVPHLHCLINPILYALLGH	289
HUL33splice	280	HLTLRRTIGTLARVVPHLHCLINPILYALLGH	311
RhUL33	205	DLTRRRVIN TFSRLVPNLHCMVNPILYALMGN	236
RhUL33splice	317	DLTRRRVIN TFSRLVPNLHCMVNPILYALMGN	348
H UL33	290	DFLQRMQRQCFRGQLLDRRAFLRSQNNQRATAE	321
HUL33splice	312	DFLQRMQRQCFRGQLLDRRAFLRSQNNQRATAE	343
RhUL33	237	DFVSKVGQCFRGELTNRRRTFLRSKQQARNSSDD	258
RhUL33splice	349	DFVSKVGQCFRGELTNRRRTFLRSKQQARNSSDD	380
H UL33	322	TNLAAGNNSQSVATSLDTNSKNYNQHAKRSVS	353
HUL33splice	344	TNLAAGNNSQSVATSLDTNSKNYNQHAKRSVS	375
RhUL33	269	VP TIVSQQP-ATPTIVNKPEK--NPHVKGVS	297
RhUL33splice	381	VP TIVSQQP-ATPTIVNKPEK--NPHVKGVS	409
H UL33	354	FNFPSTGWKGGQKTASNDTSTKIPHRLSQSHH	385
HUL33splice	376	FNFPSTGWKGGQKTASNDTSTKIPHRLSQSHH	407
RhUL33	298	FSVSASSELA AAKKAKDKA-----KRLSM SHQ	324
RhUL33splice	410	FSVSASSELA AAKKAKDKA-----KRLSM SHQ	436
H UL33	386	NLSGV	390
HUL33splice	408	NLSGV	412
RhUL33	325	NLR LT	329
RhUL33splice	437	NLR LT	441

FIG. 4B

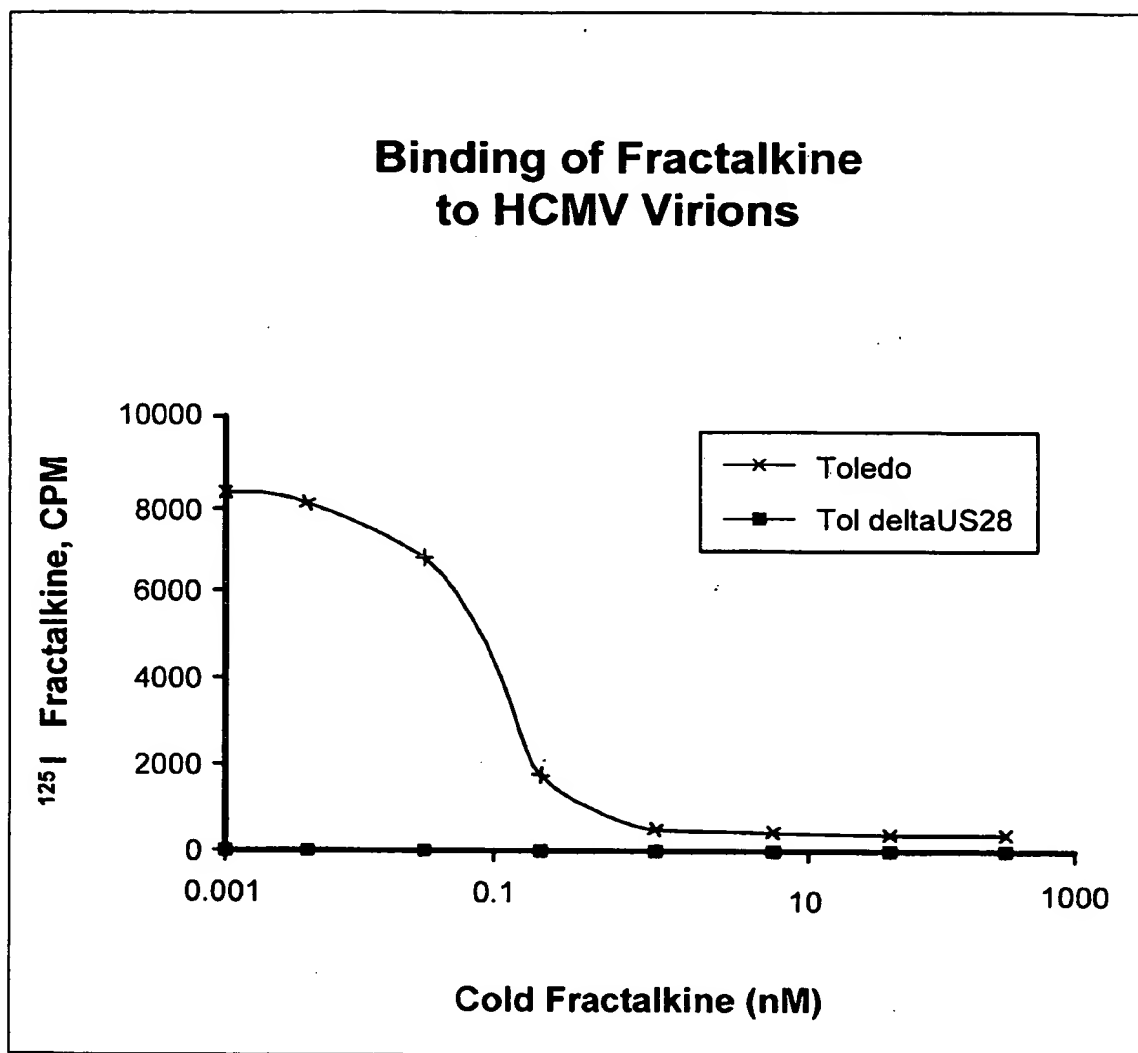


FIG. 5

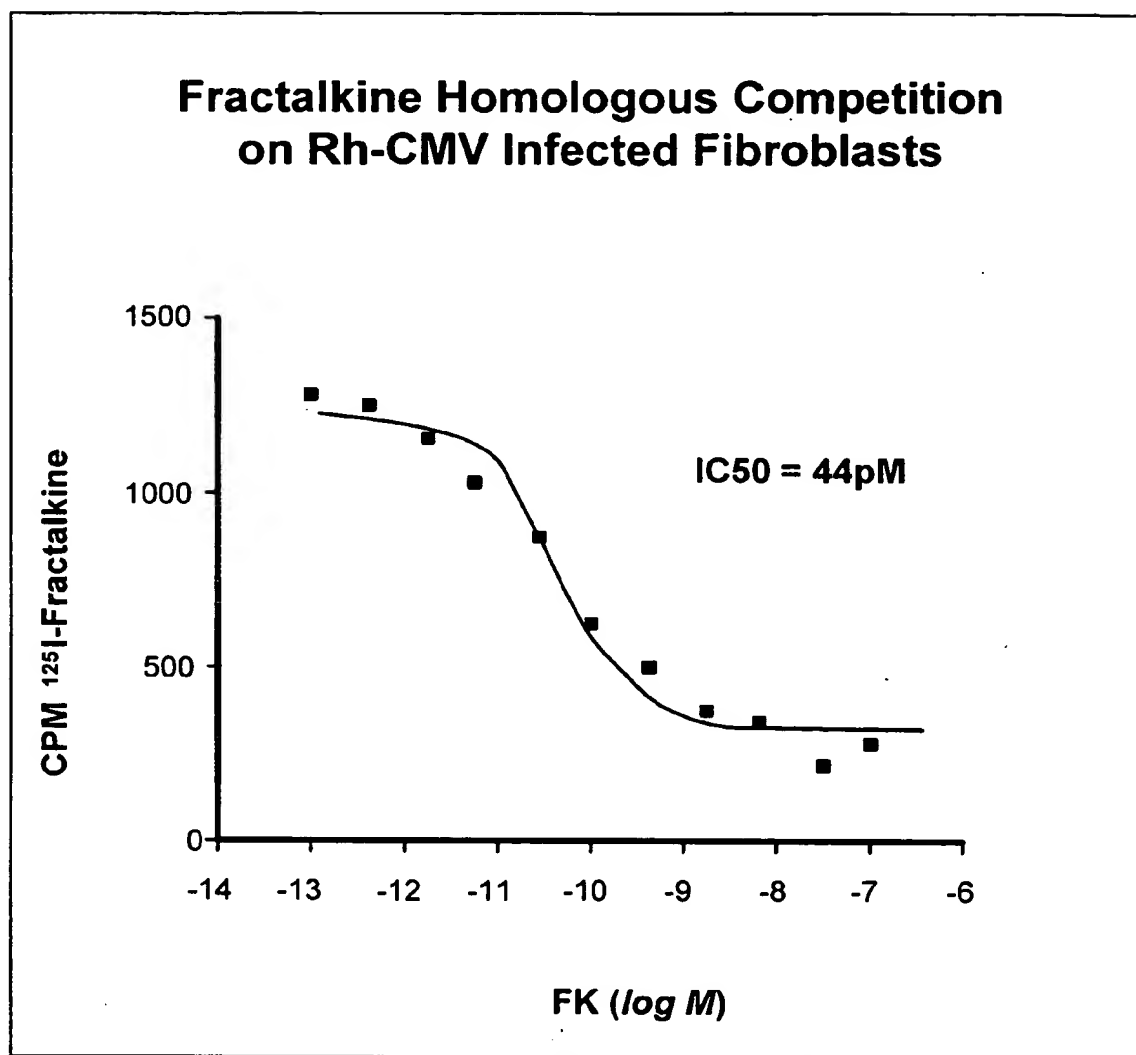


FIG. 6

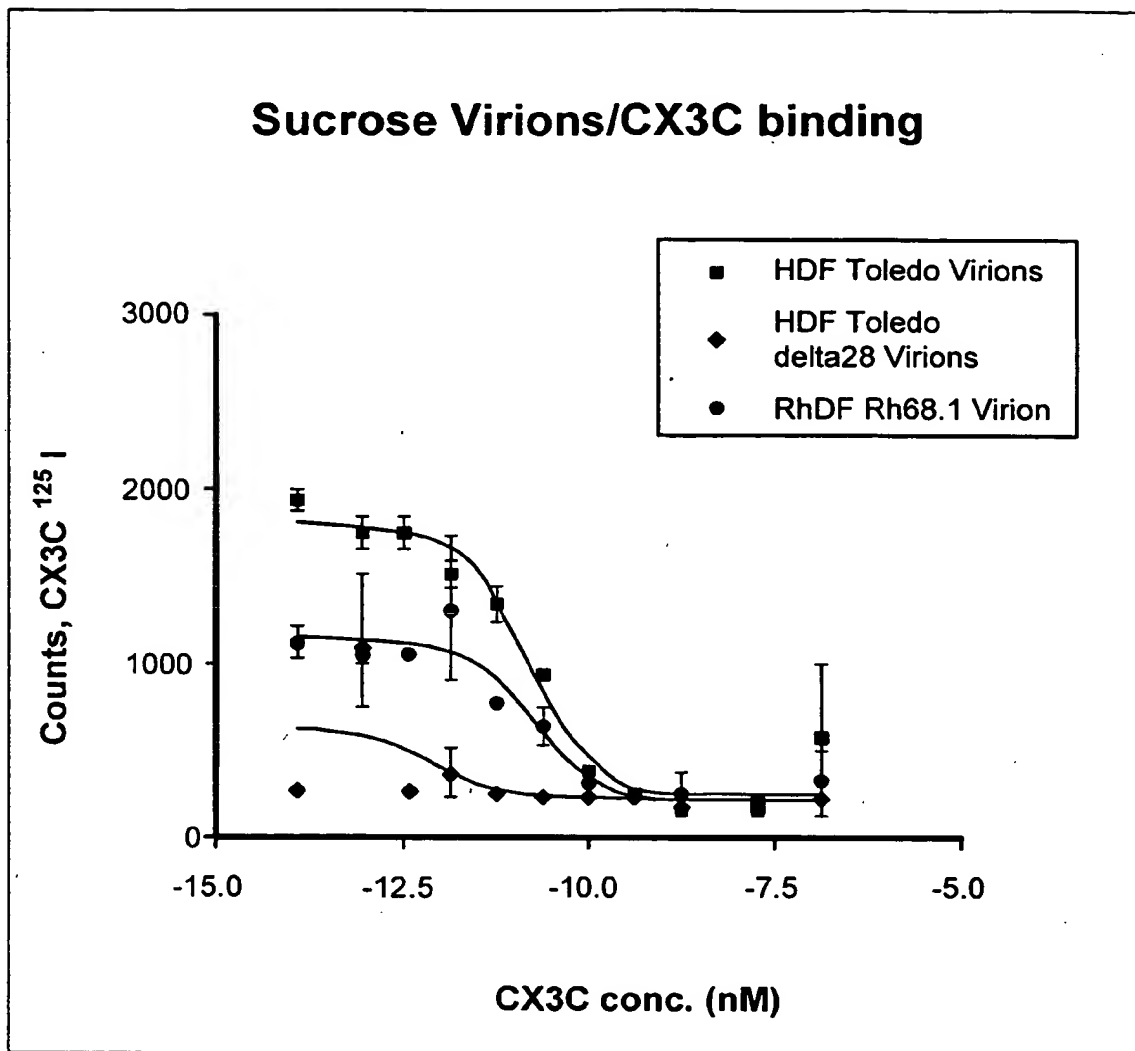


FIG. 7